

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of the claims in the application:

Listing of Claims:

1-19. (Cancelled)

20. (New) A diabetes self-care system, comprising:

(a) a blood glucose meter;

(b) a portable microprocessor-based unit signal coupled with the blood glucose meter such as to be capable of downloading blood glucose measurement data into the portable microprocessor-based unit;

(c) said blood glucose data being used as input data for a program of instructions running on the portable microprocessor-based unit; and

(d) said program of instructions including instructions to send a signal to inject insulin when blood glucose levels do not remain in a predetermined range.

21. (New) The system of claim 20, said program of instructions including instructions to send a signal to advance to next treatment steps.

22. (New) The system of claim 20, said program of instructions including instructions to display an indicator to check blood glucose level on a display screen of the portable microprocessor-based unit.

23. (New) The system of claim 20, said program of instructions including instructions to display an indicator to select insulin plan on a display screen of the portable microprocessor-based unit.

24. (New) The system of claim 20, said program of instructions including instructions to display an indicator to get a menu of foods to eat on a display screen of the portable microprocessor-based unit.
25. (New) The system of claim 20, said portable microprocessor-based unit being connectable with a remote communication unit.
26. (New) The system of claim 20, said portable microprocessor-based unit being remotely connectable with a hospital computer.
27. (New) The system of claim 26, said portable microprocessor-based unit being remotely connectable with said hospital computer via a telephone line.
28. (New) A method of diabetes self-care, comprising:
signal coupling a blood glucose meter with a portable microprocessor-based unit;
downloading blood glucose measurement data into the portable microprocessor based unit from the blood glucose meter;
running a program of instructions on the portable microprocessor-based unit;
inputting said blood glucose data as input data for the program of instructions running on the portable microprocessor-based unit; and
sending a signal including instructions of said program of instructions to inject insulin when blood glucose levels do not remain in a predetermined range.
29. (New) The method of claim 28, further comprising sending a signal to advance to next treatment steps.
30. (New) The method of claim 28, further comprising displaying an indicator to check blood glucose level on a display screen of the portable microprocessor-based unit.
31. (New) The method of claim 28, further comprising displaying an indicator to select insulin plan on a display screen of the portable microprocessor-based unit.

32. (New) The method of claim 28, further comprising displaying an indicator to get a menu of foods to eat on a display screen of the portable microprocessor-based unit.

33. (New) The method of claim 28, further comprising connecting said portable microprocessor-based unit with a remote communication unit.

34. (New) The method of claim 28, said connecting including remotely connecting said portable microprocessor-based unit with a hospital computer.

35. (New) The method of claim 34, said connecting including remotely connecting said portable microprocessor-based unit with said hospital computer via a telephone line.

36. (New) A diabetes self-care system, comprising:

(a) a portable microprocessor-based unit capable of downloading blood glucose measurement data therein;

(b) a remote communications unit signal coupled for communication with said portable microprocessor-based unit;

(b) said blood glucose measurement data being used as input data for a program of instructions running on the portable microprocessor-based unit; and

(d) said program of instructions including instructions to send a signal to inject insulin when blood glucose levels do not remain in a predetermined range.

37. (New) The system of claim 36, further comprising a blood glucose meter signal coupled with said portable microprocessor-based unit from which said blood glucose data are downloaded.

38. (New) The system of claim 36, said program of instructions including instructions to send a signal to advance to next treatment steps.

39. (New) The system of claim 36, said program of instructions including instructions to run an operation to check blood glucose level.
40. (New) The system of claim 36, said program of instructions including instructions to run an operation to select insulin plan.
41. (New) The system of claim 36, said program of instructions including instructions to run an operation to get a menu of foods to eat.
42. (New) A method of diabetes self-care, comprising:
signal coupling a remote communications unit with a portable microprocessor-based unit;
downloading blood glucose measurement data into a portable microprocessor based unit;
running a program of instructions on the portable microprocessor-based unit;
inputting said blood glucose data as input data for the program of instructions running on the portable microprocessor-based unit; and
sending a signal including instructions of said program of instructions to inject insulin when blood glucose levels do not remain in a predetermined range.
43. (New) The method of claim 42, further comprising signal coupling a blood glucose meter with said portable microprocessor-based unit from which said blood glucose data are downloaded.
44. (New) The method of claim 42, further comprising sending a signal to advance to next treatment steps.
45. (New) The method of claim 42, further comprising checking blood glucose level as a result of running the program of instructions.
46. (New) The method of claim 42, further comprising selecting an insulin plan as a result of running the program of instructions.

47. (New) The method of claim 42, further comprising getting a menu of foods to eat as a result of running the program of instructions.

48. (New) An apparatus for interactively monitoring a physiological condition and for interactively providing health-related information comprising:

- (a) a display device comprising a display screen and an audio speaker;
- (b) a multimedia processor coupled to provide an audio signal and a visual signal to the display device wherein the multimedia processor comprises a digital data storage medium;
- (c) a physiological data monitor configured to provide a signal representative of a physiological parameter of a user;
- (d) an interface device and patient isolating circuit coupled between the multimedia processor and the physiological data monitor; and
- (e) a program controller coupled provide a control signal to the multimedia processor based upon the user's input, so as to provide health related information to the user in an interactive manner based upon the signal representative of the physiological condition and the control signal.

49. (New) The apparatus according to claim 48, wherein the physiological condition comprises a blood glucose level and the physiological data monitor comprises a blood glucose meter.

50. (New) The apparatus according to claim 49, wherein the interface device comprises;

- (a) a blood glucose data receiver for receiving the signal representative of a blood glucose level;
- (b) an A/D converter for converting the signal representative of a blood glucose level into a form acceptable to the multimedia processor; and
- (c) a multimedia controller for controlling the multimedia processor coupled to the A/D converter.

51. (New) An apparatus for interactively monitoring a blood glucose level and for interactively providing health-related information comprising:

(a) a blood glucose monitor that is adapted to measure a blood glucose level of a user and for generating a first electronic signal in response to a measurement of the blood glucose level;

(b) a processor for receiving a second electronic signal that is a function of the first electronic signal;

(c) an interface isolating device coupled between the blood glucose monitor and the processor for receiving the first electronic signal from the blood glucose monitor and providing the second electronic signal to the processor, wherein the interface isolating device electrically isolates the user from the processor;

(d) a memory coupled to the processor for storing blood glucose level data; and
e. a display system coupled to the processor for displaying a representation of the blood glucose level data, so as to provide health related information to the user in an interactive manner.

52. (New) The apparatus according to claim 51, wherein the interface isolating device utilizes optical isolation.